

LSM7 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11679b

Product Information

Application	WB, E
Primary Accession	Q9UK45
Other Accession	Q9CQQ8 , NP_057283.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17450
Calculated MW	11602
Antigen Region	45-72

Additional Information

Gene ID	51690
Other Names	U6 snRNA-associated Sm-like protein LSm7, LSM7
Target/Specificity	This LSM7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-72 amino acids from the C-terminal region of human LSM7.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LSM7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LSM7
Function	Plays a role in pre-mRNA splicing as component of the U4/U6- U5 tri-snRNP complex that is involved in spliceosome assembly, and as component of the precatalytic spliceosome (spliceosome B complex) (PubMed: 28781166 ,

PubMed:[35047835](#)). The heptameric LSM2-8 complex binds specifically to the 3'-terminal U-tract of U6 snRNA (PubMed:[10523320](#)).

Cellular Location

Nucleus

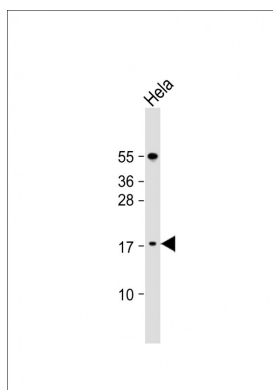
Background

Sm-like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family (see SNRPD2; MIM 601061). Sm-like proteins contain the Sm sequence motif, which consists of 2 regions separated by a linker of variable length that folds as a loop. The Sm-like proteins are thought to form a stable heteromer present in tri-snRNP particles, which are important for pre-mRNA splicing.

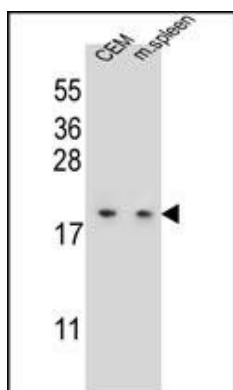
References

Lehner, B., et al. *Genome Res.* 14(7):1315-1323(2004)
Grimwood, J., et al. *Nature* 428(6982):529-535(2004)
Lehner, B., et al. *Genomics* 83(1):153-167(2004)
Ingelfinger, D., et al. *RNA* 8(12):1489-1501(2002)
Conte, N., et al. *Oncogene* 21(36):5619-5630(2002)

Images



Anti-LSM7 Antibody (C-term) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 12 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



LSM7 Antibody (C-term) (Cat. #AP11679b) western blot analysis in CEM cell line and mouse spleen tissue lysates (35ug/lane). This demonstrates the LSM7 antibody detected the LSM7 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.